

ABSTRACT

The invention relates to a rolling bearing which provides superior noiselessness and high corrosion resistance and longer life, and is manufactured at a low cost, a material for the rolling bearing, and an instrument including a rotating portion using the rolling bearing. A plurality of rolling elements 3 are provided between an inner ring 2 and an outer ring 1. At least one of the inner and outer rings 2 and 1 is formed of corrosion resistant bearing steel comprising a specific chemical component. An average value of a circle equivalent diameter of eutectic carbides contained in the corrosion resistant bearing steel is 0.2 to 1.6 μm . An average area of the eutectic carbides is 0.03 to 2 μm^2 . An area ratio of the eutectic carbides is 2 to 7 %. The hardness of the corrosion resistant bearing steel is HRC 58 to 62 by JIS. The amount of retained austenite in the corrosion resistant bearing steel is 6 volume % or less.